What is claimed is:

1. A compound of the formula I

$$A^1-Z_2-Z_1$$
 A
 B
 X
 $(CH_2)_nCOR^b$

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wherein

10 A¹ is a 5-9 membered monocyclic or 7-12 membered polycyclic heterocycle of the formula

containing at least one nitrogen atom and 0 to 5 heteroatoms or groups selected from O, N, S, SO₂ or CO; optionally saturated or unsaturated; optionally substituted by one or more R^k selected from the group consisting of hydroxy, alkyl, alkoxy, alkoxy-alkyl, thioalkyl, haloalkyl, cyano, amino, alkylamino, halogen, acylamino, sulfonamide and -COR wherein R is hydroxy, alkoxy, alkyl or amino;

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or A¹ is

$$\begin{array}{c|c}
Y^1 \\
 & \parallel \\$$

wherein Y¹ is selected from the group consisting of N-R², O, and S;

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or

R² is selected from the group consisting of H; alkyl; aryl; hydroxy; alkoxy; cyano; alkenyl; alkynyl; amido; alkylcarbonyl; arylcarbonyl; alkoxycarbonyl; aryloxycarbonyl; haloalkylcarbonyl; haloalkoxycarbonyl; alkylthiocarbonyl; arylthiocarbonyl; acyloxymethoxycarbonyl;

R² taken together with R⁷ forms a 4-12 membered dinitrogen containing heterocycle optionally substituted with one or more substituent selected from the group consisting of lower alkyl, thioalkyl, alkylamino, hydroxy, keto, alkoxy, halo, phenyl, amino, carboxyl or carboxyl ester, and fused phenyl;

or R² taken together with R⁷ forms a 4-12 membered heterocycle containing one or more heteroatom selected from O, N and S optionally unsaturated;

or R² taken together with R⁷ forms a 5 membered heteroaromatic ring fused with a aryl or heteroaryl ring;

R⁷ (when not taken together with R²) and R⁸ are independently selected from the group consisting of H; alkyl; alkenyl; alkynyl; aralkyl; amino; alkylamino; hydroxy; alkoxy; arylamino; amido, alkylcarbonyl, arylcarbonyl; alkoxycarbonyl; aryloxy; aryloxycarbonyl; haloalkylcarbonyl; haloalkoxycarbonyl; alkylthiocarbonyl; arylthiocarbonyl; acyloxymethoxycarbonyl; cycloalkyl; bicycloalkyl; aryl; acyl; benzoyl;

NR⁷ and R⁸ taken together form a 4-12 membered mononitrogen containing monocyclic or bicyclic ring optionally substituted with one or more substituent selected from lower alkyl, carboxyl derivatives, aryl or hydroxy and wherein said ring contains 0-1 heteroatom, selected from the group consisting of O, N and S;

R⁵ is selected from the group consisting of H, and alkyl;

or

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wherein Y^2 is selected from the group consisting of alkyl; cycloalkyl; bicycloalkyl; aryl; monocyclic heterocycles;

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Z₁ is selected from the group consisting of CH₂, O, CH₂O, NH, CO, S, SO, CH(OH) and SO₂;

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 Z_2 is a 1-5 carbon linker optionally containing one or more heteroatom selected from the group consisting of O, S and N; alternatively Z_1 - Z_2 may further contain a carboxamide, sulfone, sulfonamide, alkenyl, alkynyl, or acyl group; wherein the carbon and nitrogen atoms of Z_1 - Z_2 are optionally substituted by alkyl, alkoxy, thioalkyl, alkylsulfone, aryl, alkoxyalkyl, alkylamino, heteroaryl, hydroxy, alkenyl, alkynyl, carboxyalkyl, halogen, haloalky or acylamino;

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is an integer 0, 1 or 2;

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R^c is selected from the group consisting of hydrogen; alkyl; halogen, hydroxy, nitro, alkoxy, amino, haloalkyl, aryl, heteroaryl, alkoxyalkyl, aminoalkyl, hydroxyalkyl, thioalkyl, alkylamino, arylamino, alkylsulfonylamino, acyl, acylamino, sulfonyl, sulfonamide, allyl, alkenyl, methylenedioxy, ethylenedioxy, alkynyl, alkynylalkyl, carboxy, alkoxycarbonyl, carboxamido, cyano, and -(CH₂)_n-COR wherein n is 0-2 and R is selected from hydroxy, alkoxy, alkyl and amino;

X is selected from the group consisting of -O-, CO, SO₂, NR^m and (CHR^p)_n; wherein R^p and R^m are H or alkyl, n is 0-2;

 R^b is X_3 - R^h wherein X_3 is selected from the group consisting of O, S and NR^j wherein R^h and R^j are independently selected from the group consisting of H, alkyl, acyl, aryl, aralkyl and alkoxyalkyl; and

The ring A-B, is selected from the group consisting of

all optionally substituted and bonded to \boldsymbol{X} and \boldsymbol{Z}_1 at any position;

and pharmaceutically acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.

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2. A compound according to Claim 1 wherein R^k is selected from the group consisting of

wherein Z_a is H, alkyl, alkoxy, hydroxy, amine, alkylamine, dialkylamine, carboxyl, alkoxycarbonyl, hydroxyalkyl, halogen or haloalkyl and R^1 is H, alkyl, alkoxyalkyl, acyl, haloalkyl or alkoxycarbonyl, and pharmaceutically acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.

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3. A compound according to claim 1 wherein R^k is selected from the group consisting of

wherein X₄ and X₅ are selected from the group consisting of H, alkyl, branched alkyl, alkylamino, alkoxyalkylamino, haloalkyl, thioalkyl, halogen, amino, alkoxy, aryloxy, alkoxyalkyl, hydroxy, cyano, acylaminomethyl, methoxy, amine, methylamine, trifluoromethyl, dimethyl-amine, hydroxy, chloro, bromo, fluoro and cyano; X₆ is H, alkyl, hydroxy, halogen, alkoxy and haloalkyl; the pyridyl ring can be fused with a 4 - 8 membered ring, optionally saturated or unsaturated, and pharmaceutically acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.

A compound according to claim 1 wherein when Z₁ is CO or SO₂,
 and the linkage A¹-Z₂ is a heterocycle derived ring system selected from the group consisting of pyridine, imidazole, thiazole, oxazole, benzimidazole, and imidazopyridine, and pharmaceutically

acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.

5. A compound according to claim 4 wherein the heterocycle derived ring systems for A¹-Z₂ are selected from the group consisting of:

$$\text{R}^{\text{R}} \text{R}^{\text{R}}$$

$$B = NH, O, S$$

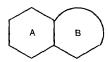
 $R = H, Me$

$$\text{Im}_{\mathbf{B}} \text{Im}_{\mathbf{A}} \text{I$$

$$B = N, CH$$

 $R = H, Me$

- and pharmaceutically acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.
 - 6. A compound according to Claim 1 wherein the ring A-B



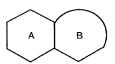
is a tetrahydronaphthalene

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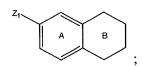
and Z₁ is S, and pharmaceutically acceptable salts,

isomers, enantiomers, tautomers, racemates and polymorphs thereof.

7. A compound according to claim 1, wherein the ring A-B



is a tetrahydronaphthalene



Z₁ is a CH₂;

A¹ is selected from the group consisting of:

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and pharmaceutically acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.

8. A compound according to claim 1, wherein

$$\begin{split} \mathbf{B} &= \mathbf{CH_2},\, \mathbf{O},\, \mathbf{CO},\, \mathbf{S},\, \mathbf{CF_2},\\ \mathbf{SO_2},\, \mathbf{NR}\\ \mathbf{R'} &= \mathbf{OR},\, \mathbf{OH},\, \mathbf{Me} \end{split}$$

the ring A-B is Z_1

A¹ is selected from the group consisting of :

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and pharmaceutically acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.

5 9. A compound according to claim 1 selected from the group consisting of:

[2,2-dimethyl-3-oxo-8-[3-(pyridin-2-ylamino)propoxy]-2,3-dihydro-1,4-benzoxazepin-4(5H)-yl]acetic acid;

1,2,3,4-tetrahydro-6-[3-(2-pyridinylamino)propoxy-2-isoquinoline-

propanoic acid;

{5-[3-(pyridin-2-ylamino)propoxy]-1H-indol-1-yl}acetic acid;

2,3-dihydro-5-[3-(2-pyridinylamino)propoxy]-1H-indene-2-acetic acid;

2, 3, 4, 5-tetrahydro-5-oxo-8-[3-(2-pyridinylamino)propoxy]-1,4-benz-oxazepine-4-acetic acid;

2,3,4,5-tetrahydro-8-[3-(2-pyridinylamino)propoxy]1,4-benzoazepine-4-acetic acid;

1,2,3,4-tetrahydro-1-oxo-6-[3-(2-tetrahydropyrimidinyl)amino]-propoxy]-2-isoquinolineacetic acid;

3,4-dihydro-7-[3-(2-pyridinylamino)propoxy]-2-H-1-benzopyran-3-

20 acetic acid;

(6-{[3-(pyridin-2-ylamino)propyl]thio}-1,2,3,4-tetrahydronaphthalen-2-yl)acetic acid;

1,2,3,4-tetrahydro-6-[2-(5,6,7,8-tetrahydro-1,8-naphthyridyl)-amino-ethyloxy]2-naphthaleneacetic acid, and pharmaceutically acceptable salts, isomers, enantiomers, tautomers, racemates and polymorphs thereof.

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- A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claims 1-9 and a pharmaceutically acceptable carrier.
- 11. A method for treating conditions mediated by the $\alpha_V \beta_3$ integrin in a mammal in need of such treatment comprising administering an effective $\alpha_V \beta_3$ inhibiting amount of a compound of Claims 1-9.
- 12. The method according to Claim 11 wherein the condition treated is selected from the group consisting of tumor metastasis, tumor growth, solid tumor growth, angiogenesis, osteoporosis, humoral hypercalcemia of malignancy, smooth muscle cell migration, restenosis, atheroscelorosis, macular degeneration, retinopathy, and arthritis.

- 13. A method for treating conditions mediated by the $\alpha_V \beta_5$ integrin in a mammal in need of such treatment comprising administering an effective $\alpha_V \beta_5$ inhibiting amount of a compound of Claims 1-9.
- 25 14. The method according to Claim 13 wherein the condition treated is selected from the group consisting of tumor metastasis, tumor growth, solid tumor growth, angiogenesis, osteoporosis, humoral hypercalcemia of malignancy, smooth muscle cell migration, restenosis, atheroscelorosis, macular degeneration, retinopathy, and arthritis.
 - 15. A method of treating neoplasia in a patient in need thereof comprising administering a compound of Claims 1-9 in combination with a chemotherapeutic agent.

16. A compound of Claims 1-9 that selectively antagonizes the $\alpha_V\beta_3$ and the $\alpha_V\beta_5$ integrins, over the $\alpha_V\beta_6$ integrin.